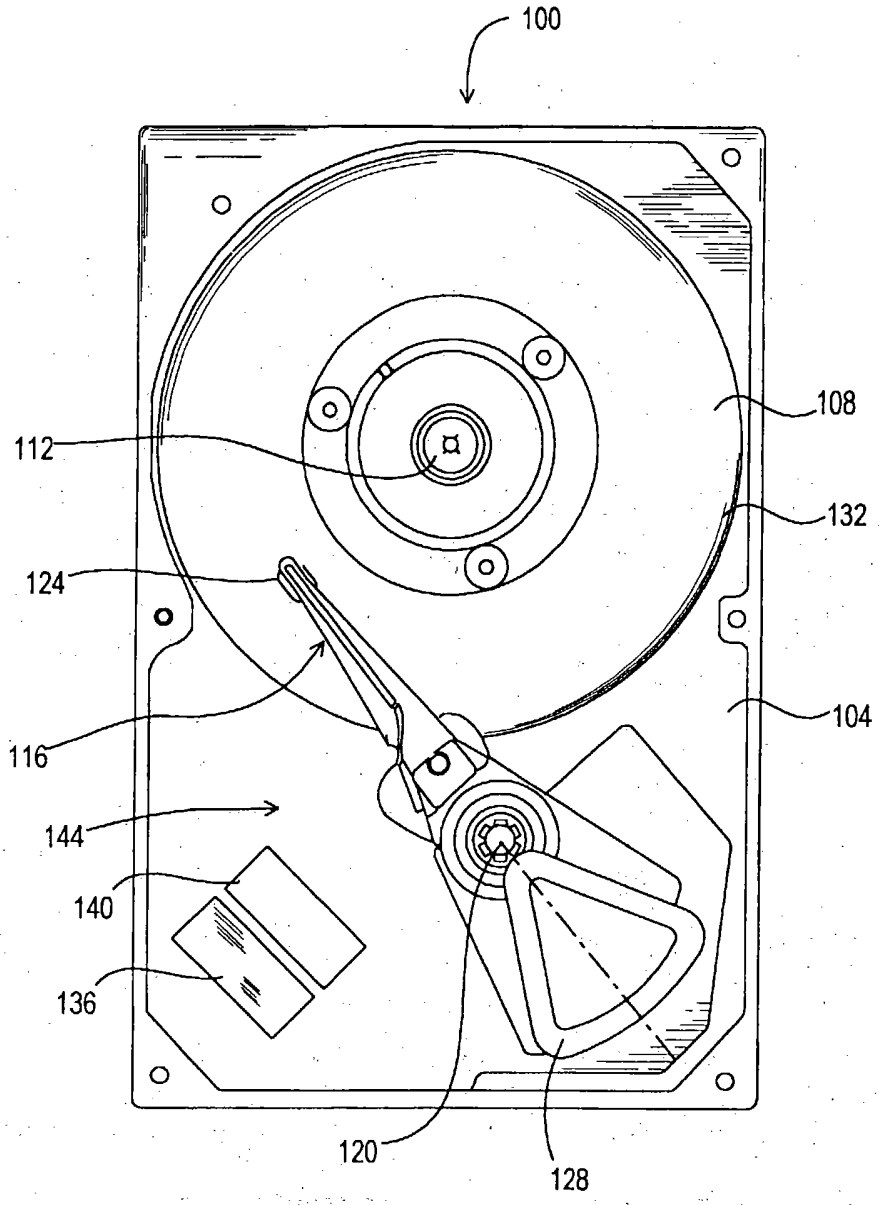


FIG. 1

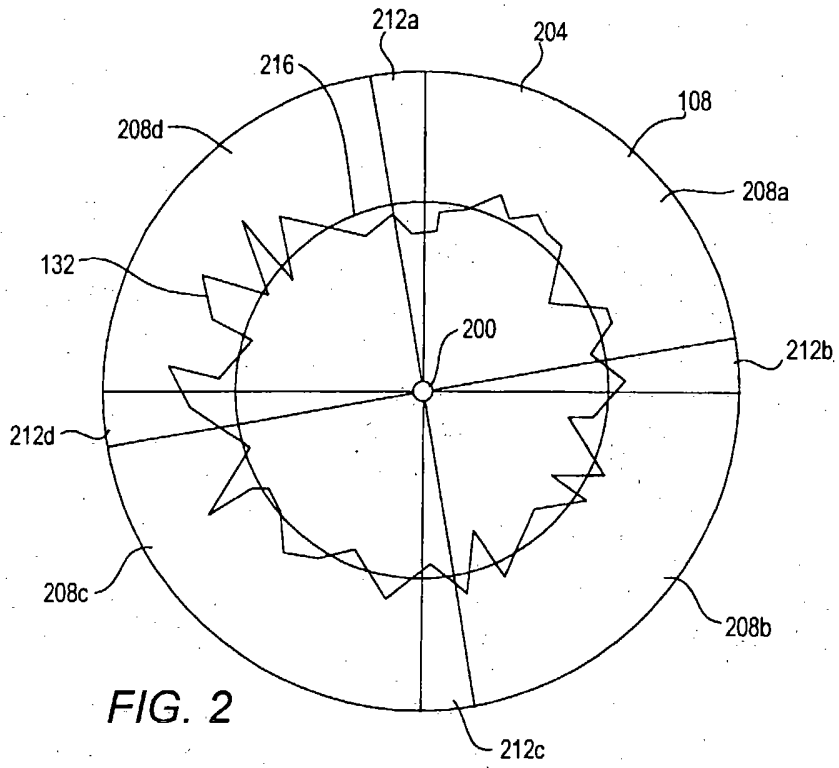


FIG. 2

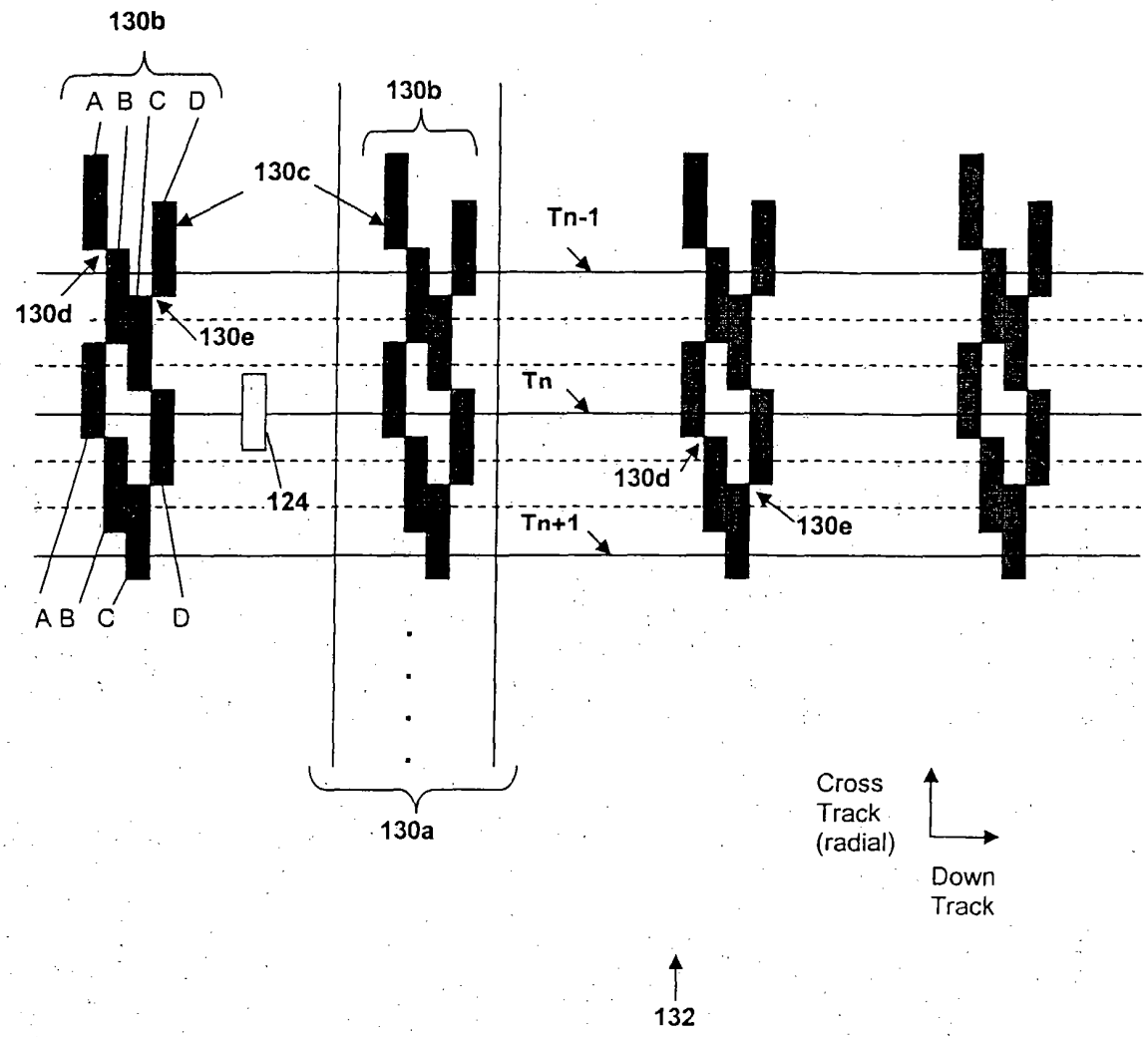

130b
A B C D
130b
130c
Tn-1
130d
130e
Tn
124
130d
130e
Tn+1
A B C D
130a
Cross
Track
(radial)
Down
Track
132

FIG. 3

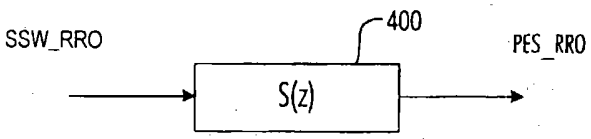


FIG. 4

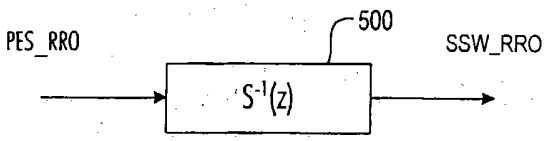


FIG. 5

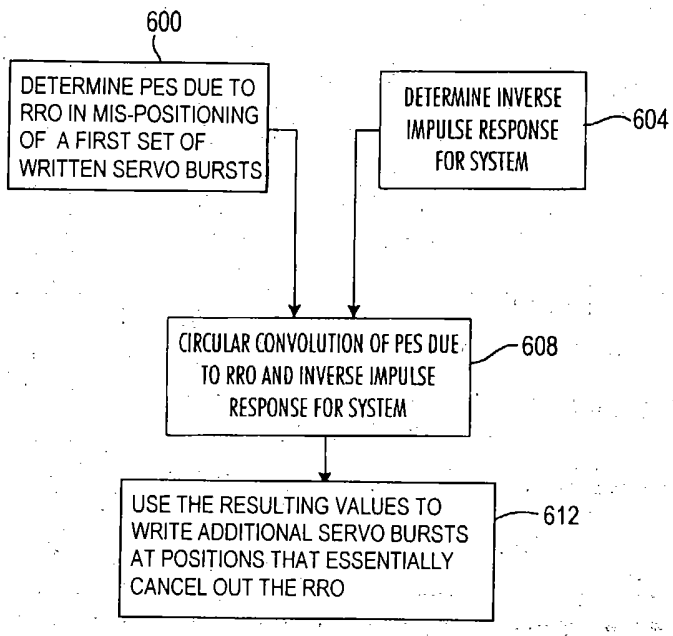


FIG. 6

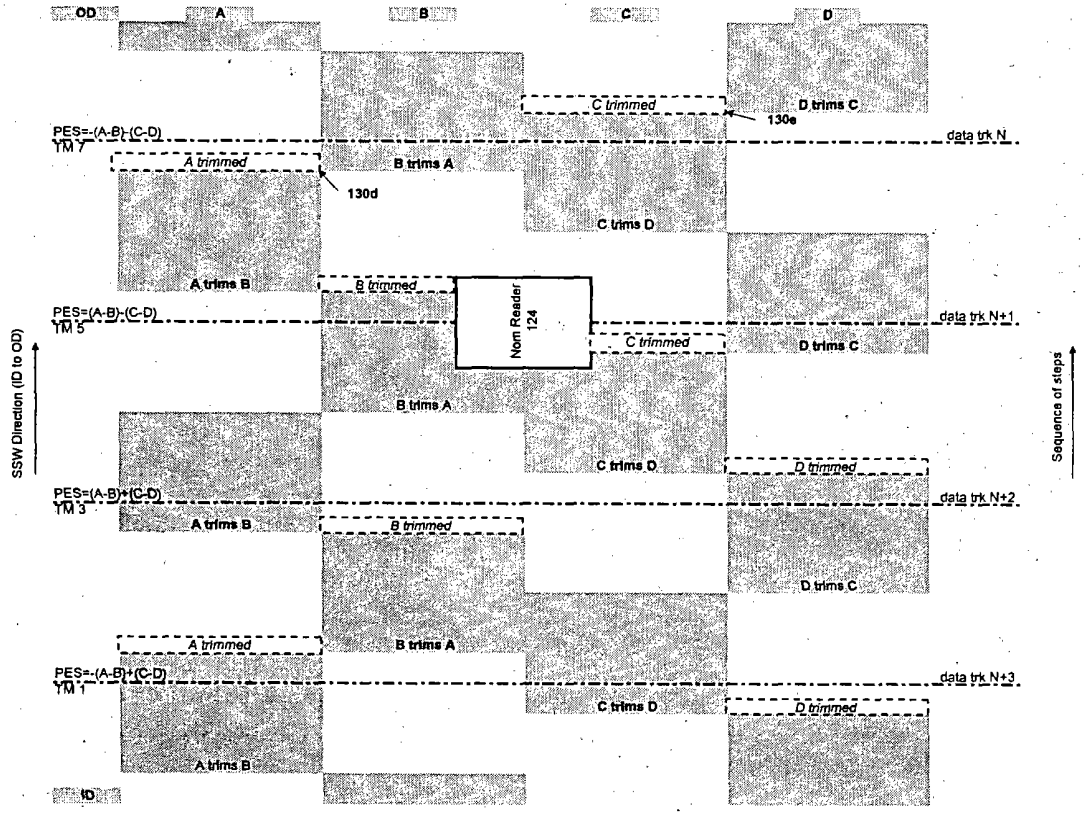

OD
A
B
C
D
C trimmed
D trims C
130e
PES=-(A-B)-(C-D)
TM 7
data trk N
A trimmed
B trims A
130d
C trims D
A trims B
B trimmed
Nom Reader
124
PES=(A-B)-(C-D)
TM 5
data trk N+1
C trimmed
D trims C
B trims A
C trims D
D trimmed
PES=(A-B)+(C-D)
TM 3
data trk N+2
A trims B
B trimmed
D trims C
A trimmed
B trims A
PES=-(A-B)+(C-D)
TM 1
data trk N+3
C trims D
D trimmed
A trims B
ID
SSW Direction (ID to OD)
Sequence of steps

FIG. 7

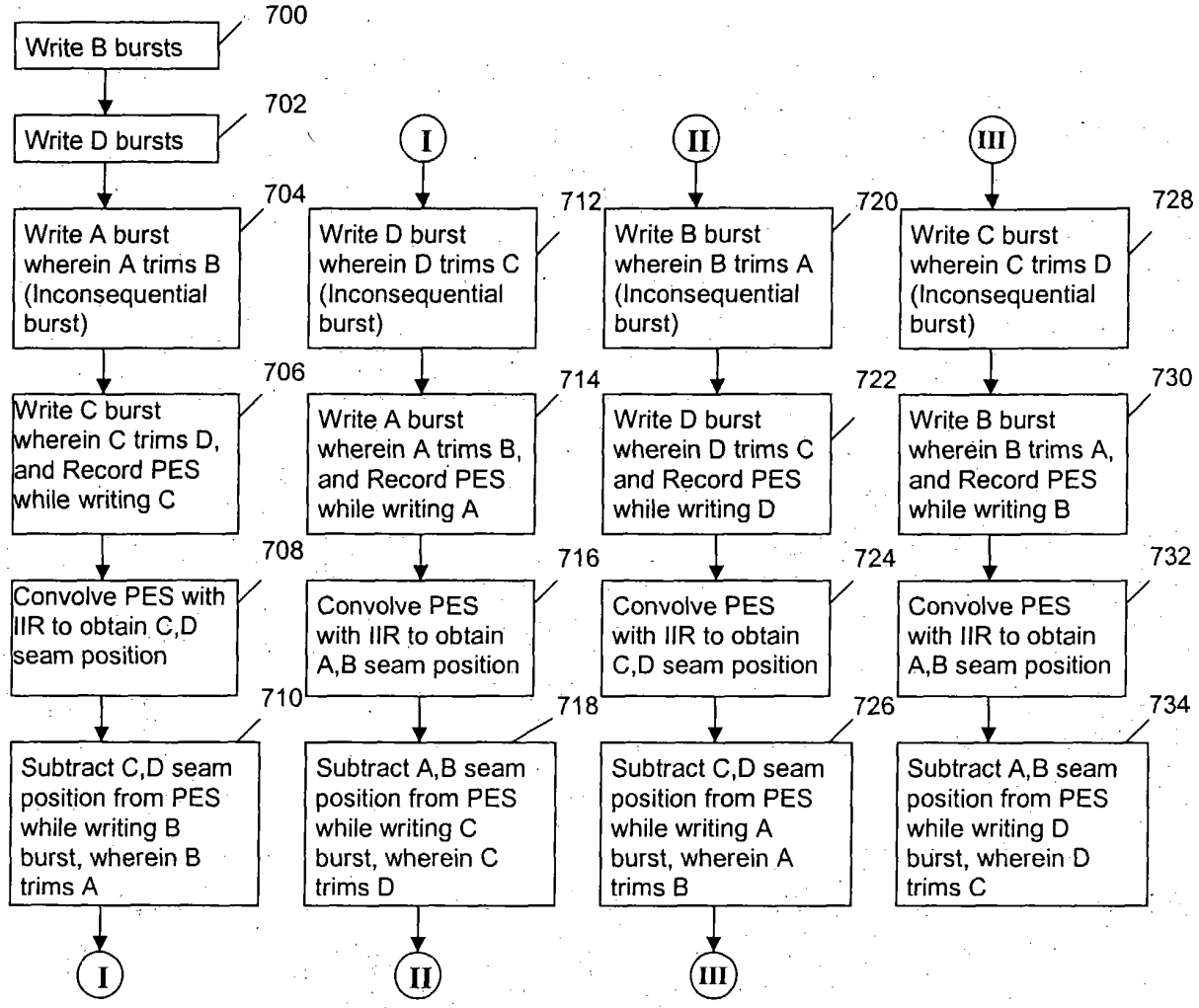
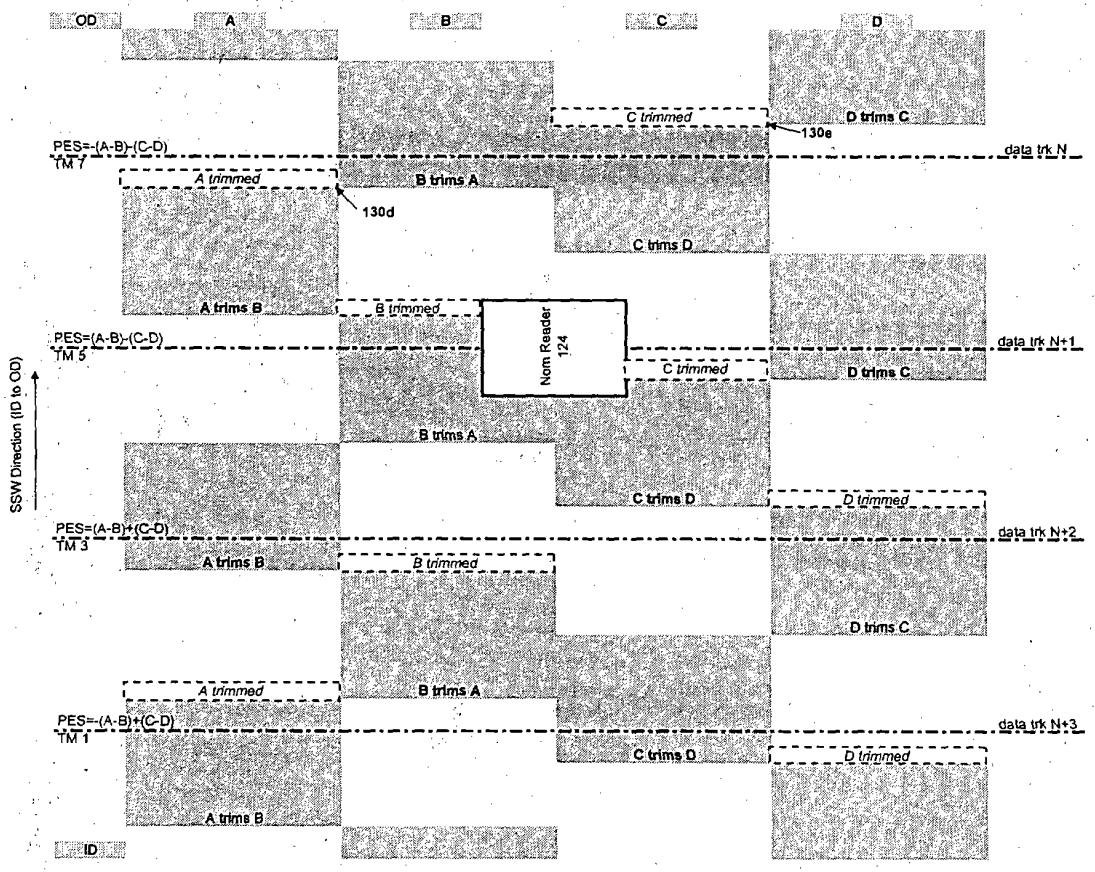

Write B bursts
700
Write D bursts
702
Write A burst wherein A trims B (Inconsequential burst)
704
Write C burst wherein C trims D, and Record PES while writing C
706
Convolve PES with IIR to obtain C,D seam position
708
Subtract C,D seam position from PES while writing B burst, wherein B trims A
710
I
I
Write D burst wherein D trims C (Inconsequential burst)
712
Write A burst wherein A trims B, and Record PES while writing A
714
Convolve PES with IIR to obtain A,B seam position
716
Subtract A,B seam position from PES while writing C burst, wherein C trims D
718
II
II
Write B burst wherein B trims A (Inconsequential burst)
720
Write D burst wherein D trims C and Record PES while writing D
722
Convolve PES with IIR to obtain C,D seam position
724
Subtract C,D seam position from PES while writing A burst, wherein A trims B
726
III
III
Write C burst wherein C trims D (Inconsequential burst)
728
Write B burst wherein B trims A, and Record PES while writing B
730
Convolve PES with IIR to obtain A,B seam position
732
Subtract A,B seam position from PES while writing D burst, wherein D trims C
734

FIG. 8



(Step 734) Write D burst. D trims C.
Subtract position (from step 732) from PES while writing D.

(Step 732) Convolve PES with IIR to obtain AB seam position.
(Step 730) Write B burst. B trims A. Record PES while writing B.

(Step 728) Write C burst. C trims D. Inconsequential burst.

(Step 726) Write A burst. A trims B.
Subtract position (from step 724) from PES while writing A.

(Step 724) Convolve PES with IIR to obtain CD seam position.
(Step 722) Write D burst. D trims C. Record PES while writing D.

(Step 720) Write B burst. B trims A. Inconsequential burst.

(Step 718) Write C burst. C trims D.
Subtract position (from step 716) from PES while writing C.

(Step 716) Convolve PES with IIR to obtain AB seam position.
(Step 714) Write A burst. A trims B. Record PES while writing A.

(Step 712) Write D burst. D trims C. Inconsequential burst.

(Step 710) Write B burst. B trims A.
Subtract position (from step 708) from PES while writing B.

(Step 708) Convolve PES with IIR to obtain CD seam position.
(Step 706) Write C burst. C trims D. Record PES while writing C.

(Step 704) Write A burst. A trims B. Inconsequential burst.
(Step 702) Write D bursts. (Wraps to step 734.)
(Step 700) Write B bursts. (Wraps to step 730.)

FIG. 9